

HW WZ USERS GROUP
** MEW ADDRESS **

PHONE - OLT LII LIL

PRODUCED BY HV VZ USER'S GROUP A NON PROFIT PUBLICATION EDITOR: JOSEPH P LEON



APOLOGIES . . .

MY SINCEREST APOLOGIES TO ALL VZ JOURNAL READERS FOR THE VERY, VERY LATENESS OF THIS ISSUE. AS MENTIONED IN LAST ISSUE I HAVE A MEDICAL PROBLEM WHICH GOT MUCH WORSE NEAR COMPLETION OF MY NEW HOUSE. IT AFFECTED ALL MY JOINTS AND MADE LIFE UNBEARABLE FOR MANY MONTHS.

I had to be out of my last address by a certain date and so I pushed myself and am still paying for it now. I had many relapses since then but thankfully I'm starting to feel near normal. The next issue should be on time as I've learned my lesson and am taking things easy.

NEXT/FUTURE ISSUE/S . . .

FINAL PART OF VZ FREQUENCY.
MULTIPLE USR CALL ROUTINE (USED IN VZ FREQUENCY).
MACHINE CODE DIRECTORY ROUTINE (USED BY VZ FREQUENCY).
MINI AMPLIFIER FOR THE VZ.
MANUAL DATA INPUT FOR VZ LOTTO.
JOURNAL INDEX PART II

FOR SALE - FOR SALE . .

1 OFF VZ 300
2 OFF DISK DRIVES
1 OFF DISK CONTROLLER
1 OFF PRINTER INTERFACE
1 OFF GREEN SCREEN MONITOR
1 OFF LIGHT PEN
1 OFF MODEM AND INTERFACE
1 OFF DR20 TAPE DATA RECORDER
BOX OF ASSORTED DISKS, BOOKS, MAGAZINES AND MANUALS

\$250.00 ONO. WILL SEPERATE BUT WOULD PREFER TO SELL AS ONE LOT.

ALSO FOR SALE SPARE PARTS INCLUDING:

APFROXIMATELY 6 VZ'S, EXPANSION CASES, MODEMS, JOYSTICKS, MEMORY, CPU CHIPS (SOME NEW), MONITORS (GOING).

BEST OFFER FOR ABOVE . . .

BEN HOBSON PO BOX 255 QUIRINDI 2343 (067) 462 076 AFTER 6.30 PM

PUBLIC DOMAIN SOFTWARE

IT HAS BEEN SUGGESTED TO ME THAT I ASSEMBLE A NUMBER OF DISKS CONTAINING PUBLISHED PROGRAMS, PUBLIC DOMAIN SOFTWARE, ETC AND OFFER TO READERS AT MINIMAL COST TO COVER EXPENSES. PLEASE LET ME KNOW YOUR IDEAS ON THIS AND WHAT TYPE OF SOFTWARE YOU WOULD LIKE. ED.

BACK ISSUES . . .

MOST BACK ISSUES ARE IN STOCK AND AVAILABLE AT FOLLOWING PRICES.

CURRENT ISSUE - \$3.50 EACH - INCLUDES POSTAGE 1 - 5 ISSUES - \$3.00 EACH - INCLUDES POSTAGE 6 OR MORE ISSUES - \$2.75 EACH - INCLUDES POSTAGE OUT OF STOCK ISSUES - \$3.50 EACH - INCLUDES POSTAGE

FRONT COVER

IT SAYS IT ALL. I HAVE MOVED AGAIN, BUT NOT VERY FAR AND HAVE NO PLANS MOVING AGAIN UNLESS I WIN LOTTO OR SOMETHING SIMILIAR. IT IS VERY NICE HAVING A PLACE OF MY OWN AGAIN AFTER BOARDING FOR A COUPLE YEARS WITH MY BROTHER.

HELP - SELL & .ELL

APOLOGIES, NEXT/FUTURE ISSUES, FOR SALE, PUBLIC DOMAIN SOFTWARE AND BACK ISSUES.

LIST UTILITY BY L MILBURN PAGES 4-6 LIST IS A SMALL ROUTINE WHICH CAN BE CALLED FROM A BASIC PROGRAM AND LISTS A BASIC PROGRAM STORED ON DISK TO THE PRINTER (OR SCREEN AFTER A SMALL MOD) AND THE BASIC PROGRAM WILL KEEP RUNNING AFTER THE CALL.

DOS BUGS 2 BY L MILBURN PAGE 6 THIS TIME LES HAS FOUND A BUG WITH THE DCOPY COMMAND AND SHARES HIS DISCOVERY WITH OTHER VZ USERS.

BASIC COMMAND ABBREVATIONS PAGE 8 BY BOB KITCH

THERE ARE A NUMBER OF UNDOCUMENTED COMMAND ABBREVATIONS WHICH BOB BRINGS TO OUR ATTENTION AND CAN BE USED BY PROGRAMERS.

INVERSE CHARACTER SET PAGES 7-10 BY BOB KITCH THE SHAPES OF THE VZ INVERSE CHARACTER SET IS HELD IN ROM AND CONTAIN

SOME ERRORS. IF YOU STUDY PAGE 10 YOU'LL SEE THEM. THE PROGRAM WILL ALLOW YOU TO A HAVE A LOOK AT YOUROWN ROM AND SEE FOR YOURSELF.

BASIC & SOURCE CODE TO PAGES 10-14 WP FILE BY D MITCHELL

THIS PROGRAM WAS NORMALLY AVAILABLE WITH DAVE MITCHELL'S E & F DISK WP PATCH3.3. IT CONVERTS BASIC PROGRAMS AND SOURCE CODE FILES TO DISK WP FILES. IT IS VERY FAST AND VERY EASY TO USE AND VERY USEFUL.

VZ NUMBERS FREQUENCY PAGES 14-18 THIS PROGRAM IS DESIGNED TO KEEP TRACK OF WINNING AND/OR SUPPLEMENTARY NUMBERS IN POOLS AND GO LOTTO. WITH SOME MINOR MODIFICATIONS THIS PROGRAM COULD BE ALTERED TO KEEP TRACK OF OTHER NUMBER FREQUENCIES. OZ LOTTO MODS IN NEXT ISSUE.

VZ-EPSON PRINTER PATCH V1.4 PAGE 19

BY L TAYLOR - PUBLIC TAYLOR
THE INSTRUCTIONS FOR ABOVE ARE REPRODUCED FOR THOSE WHO HAVE PROGRAM BUT NOT THE INSTRUCTIONS.

NEW PUBLIC DOMAIN SOFTWARE PAGE 20 USER GROUPS CONTRIBUTIONS SUBSCRIPTIONS

DISCLAIMER: EVERY EFFORT IS MADE TO INSURE THE ACCURACY OF INFORMATION CONTAINED WITHIN BE IT GENERAL, TECHNICAL, PROGRAMMING, ETC. NO RESPONSIBILITY CAN BE ACCEPTED BY HUNTER VALLEY VZ USERS GROUP OR AUTHOR AS A RESULT OF APPLYING SUCH INFORMATION IN PRACTICE.

```
063 LD A,(HL)
064 INC HL
065; IF STRING LEN=0, RETURN
066 CP 0
067 JR Z,ERR
 001 ;*************
 002 :* MACHINE CODE ROUTINE *
003 :* PRINTS A BASIC PROGRAM *
 005;
                                                 067 JR 2,ERR
068 ;ENSURE STRING LEN <= 8
069 CP 9
070 JP M,LP1
071 LD A,8
072 LP1 LD E,(HL)
073 INC HL
074 LD D,(HL)
075 EX DE,HL
 006 ; NOT RELOCATABLE CODE.
 008 ;*************
 009 ; ROM SUBROUTINES.
 010:
 011 PCHR EQU 032AH
 012 PINT EQU 0FAFH
076 ; COPY FILENAME TO BUFFER
                                                     077 LD DE, (DOS)
078 INC DE
079 LD C, A
080 LD B, 0
081 LDIR
                                                     082 ; SAVE STACK POINTER
                                                083 LD (STCK), SP
084 ; SET STACK PTR TO FREE MEM
085 LD SP, STAK
086 ; SAVE IMPORTANT BASIC PTRS
021;
024;
                                                   086; SAVE IMPORTANT BASIC PIRS
087 LD HL, (SBAS)
088 PUSH HL
089 LD HL, (EBAS)
090 PUSH HL
091 LD HL, (BPTR)
092 PUSH HL
093; SET FILETYPE TO BASIC TYPE
025 DVCE EQU 789CH
026 SBAS EQU 78A4H
027 BPTR EQU 78A7H
028 RTYP EQU 78AFH
029 EBAS EQU 78F9H
030 ARG EQU 7921H
031;
032; *************
                                                     094 LD (IY+9), FTYP
033 ; CONSTANT DEFINITIONS
                                                   095 ; LOAD FILE SPECIFIED FROM
                                                     096 ; DISK IN CURRENT DRIVE
034;
035 VINT EQU 2
                                                     098
                                                     097
                                                                CALL PWON
                                                     098 CALL LOAD
099 ;SAVE ERROR CODE.
036 VSTR EQU 3
037 SDEV EQU 0
038 PDEV EQU 1
039 FTYP EQU "T"
040 STAK EQU 7700H
                                                     100 PUSH AF
101 CALL PW
                                                                CALL PWOF
                                                    102 ; RESTORE THE ERROR CODE
041;
                                                    103 POP AF
104; WAS THERE A DISK ERROR?
042 ;*************
                                                    105 CP 0
043;
055 INC DE

056 INC DE

057 LD (HL),32 119 ;SAVE FOUND LINE PTR

058 LD BC,7 120 PUSH BC

059 LDIR 121 LOOP POP HL

060 ;GET STRING ARG (FILENAME) 122 ;BC = PTR TO NEXT LINE

061 LD HL, (ARG) 123 LD C, (HL)

062 ·A=STRING LENGTH 124 INC HL
```

LIST IS A SMALL ROUTINE WHICH LISTS A BASIC PROGRAM STORED ON DISK TO THE PRINTER (OR SCREEN AFTER A SMALL MOD).

SO WHATS NEW? I HEAR YOU ASK.

WELL, THE BEAUTY OF THIS UTILITY IS THAT IT CAN BE CALLED FROM A BASIC PROGRAM AND DOES NOT RE-ENTER IMMEDIATE MODE AFTER LISTING THE PROGRAM, (I.E. THE CALLING BASIC PROGRAM KEEPS RUNNING).

WHAT'S THE USE?

THE MAIN USE OF LIST IS TO PROVIDE AN EASY WAY TO LIST MANY BASIC PROGRAMS IN A "BATCH LIKE" PROCESS WITHOUT REQUIRING INTERVENTION BY THE USER.

HOW TO USE LIST.

- (1) A CONTROLLING BASIC PROGRAM IS REQUIRED. IT MUST LOAD THE ROUTINE, SET UP THE USR ADDRESS AND PROVIDE THE FILENAMES OF THE PROGRAMS TO LIST.
- (2) THE CONTROLLING BASIC PROGRAM MUST BE RELOCATED SUCH THAT ITS START ADDRESS IS ABOVE THE END ADDRESS OF ALL OF THE BASIC PROGRAMS IT IS LISTING.
- (3) X=USR("FILENAME") IS THE SYNTAX REQUIRED TO LIST A FILE. AFTER THE CALL, X INDICATES WHETHER AN ERROR OCCURRED (NON-ZERO = ERROR).

RELOCATING A BASIC PROGRAM

THE EASIEST WAY TO RELOCATE A PROGRAM IS TO USE THE EXT12 UTILITY. AN ALTERNATIVE IS TO MOVE THE START OF BASIC POINTER AS DESCRIBED IN THE TECHNICAL MANUAL.

RUNNING A RELOCATED BASIC PROGRAM

IF YOU TRY TO RUN A RELOCATED BASIC PROGRAM AND YOU GET A SYNTAX ERROR TRY THE FOLLOWING:

SOB=(PEEK(30884)+256*PEEK(30885))-1 POKE SOB,0 or POKE SOB-65536,0 IF SOB > 32767

NOW TYPE RUN

HERE IS AN EXAMPLE OF A CONTROLLING BASIC PROGRAM (NOTE THAT LIST.BIN IS LOCATED AT 29184)

- 10 BLOAD"LIST.BIN"
- 20 POKE30862,0:POKE30863,114
- 30 POKE29282,0 'FOR SCREEN LIST
- 40 X=USR("FILE1")
- 50 X=USR("FILE2")
- 60 X=USR("FILE3")
- 70 X=USR("ETC ")
- 80 X=USR("ETC ")

LIST SOURCE CODE ON NEXT 2 PAGES

44-7 BASIC COMMAND ABBREVIATIONS BY BOB KITCH

A NUMBER OF ABBREVIATED FORMS OF BASIC COMMANDS WILL RUN ON THE VZ. THESE SHORTENED FORMS ARE NOT FULLY DOCUMENTED IN THE MANUALS ACCOMPANYING THE MACHINES; SO I HAVE SET THEM OUT BELOW. TRY THEM, AS THEY SAVE A LITTLE SPACE ON THE 32 CHARACTER LONG LINE. THEY SHOULD BE USED WITH CAUTION AS THEY CONTRIBUTE LITTLE TO PROGRAM READABILITY.

FULL COMMAND

ABBREVIATED COMMAND

10 REM A NON-EXECUTABLE LINE 20 PRINT"SEE THIS"" 30 SOUND 1,3:SOUND 2,5	10 ' A NON-EXEC 20 ?"SEE THIS" 30 SOUND 1,3;2,5
40 LET A=23 50 IF A=1 THEN GOTO 999	40 A=23 50 IF A=1,GOTO 999 or
60 PRINT"ENTER VALUE": INPUT A	50 IF A=1,999 60 INPUT"ENTER VALUE";A

TO PUT THE INPUT "?" ANY WHERE ON THE SCREEN USE:

70 PRINT@488::INPUT A

MULTIPLE NEXT STATEMENTS ARE NOT REQUIRED IF THEY FOLLOW EACH OTHER IN THE PROGRAM.

EDITOR'S NOTE:

THE USE OF (') INSTEAD OF REM SAVES TWO CHARACTER SPACES ON THE PROGRAM LINE BUT USES 3 BYTES OF MEMORY INSTEAD OF 1 BYTE.

THE USE OF (?) INSTEAD OF PRINT SAVES CHARACTER SPACES ON THE PROGRAM LINE, BUT ONCE ENTERED THE VZ CONVERTS IT TO THE PRINT STATEMENT. EACH NUMBERED LINE ON THE VZ CONSISTS OF 64 CHARACTER SPACES INCLUDING THE LINE NUMBER.

IT IS POSSIBLE BY USING (?) MANY TIMES ON A LINE TO FORCE THE VZ TO EXCEED THE 64 CHARACTER LIMIT. THE VZ WILL DISPLAY IT, BUT WILL NOT ALLOW EDITING OF THE EXTRA CHARACTERS/LINES AND IF YOU PRESS RETURN ON THE LINE THE EXTRA CHARACTERS/LINES WILL DISAPEAR.

WHEN RENUMBERING YOUR PROGRAM THE USE OF (') INSTEAD OF REM CAN CORRUPT YOUR PROGRAM AND BRING ON STRANGE RESULTS WHICH COULD BE DIFFICULT TO CORRECT FOR THE NOVICE PROGRAMMER. AS BOB MENTIONED USE THE ABREVIATED COMMANDS WITH CAUTION.

DISPLAY INVERSE CHARACTER SET BY BOB KITCH

WHEN INVERSE CHARACTERS ARE SENT TO A DOT MATRIX PRINTER THE PRINTER SHIFTS TO GRAPHICS MODE AND REQUIRES A ROUTINE TO SUPPLY THE APPROPRIATE SHAPES TO THE HEAD. (NORMAL CHARACTERS ARE HELD IN THE PRINTERS ROM). IN THE VZ COMPUTER A TABLE OF SHAPES IS LOCATED AT 3B94H TO 3CD3H (15252 TO 15571 IN ROM.

THERE ARE 64 CHARACTERS, EACH USING 5 BYTES TO DEFINE THEIR GRAPHIC SHAPE. THE SHAPES MAY BE DECODED AND OUTPUT TO THE SCREEN AS IS DONE IN THIS PROGRAM. NOTE THERE ARE ERRORS IN THE ROM. THE 5 BYTES DEFINE A 5 BY 8 DOT MATRIX WHICH IS THE SHAPE OF THE CHARACTER, WHICH INCIDENTLY ARE NOT ORDERED ACCORDING TO THE ASCII CODE.

```
160 ERR LD HL,1
161 JR LEX1
162 ERR2 EQU $
163 ; 205 ; 164 ;RESTORE IMPORTANT BASIC 206 IBUF DEFS 100 165 ;PROGRAM POINTERS 207 STCK DEFW 0 166 POP HL 208 DOS DEFW 0
```

DOS BUGS REPORT 2 IN (DSE) DOS V1.2 BY LESLIE MILBURN

I HAVE FOUND YET ANOTHER BUG IN DOS V1.2. THIS TIME IT IS TO DO WITH THE DCOPY COMMAND. IF DCOPYING A SINGLE FILE USING TWO DRIVES AND THE DESTINATION DISK IS WRITE PROTECTED, THE DESTINATION DRIVE IS LEFT SPINNING AND NO ERROR MESSAGE IS DISPLAYED.

IF ANYBODY HAS FOUND ANY OTHER BUGS IN ANY DOS SYSTEM, PLEASE INFORM THE EDITOR WHO CAN PASS THE INFORMATION ON TO OTHER USERS.

NOTE: IF WRITING TO EDITOR PLEASE NOTE NEW ADDRESS AND PHONE NUMBER WHICH IS SHOWN ON FRONT COVER.

44-9 INVERSE CHARACTER SET CONT.

```
460 COLOR BT%(I%) :'***SET COLOUR OF BIT.
470 SET(HP%,VP%+I%) :'***PLOT BIT.
480 NEXT I%
490:
500 '***PREPARE FOR NEXT BYTE.
510 HP%=HP%+1 :'***INCREMENT HORIZONTAL POSITION.
520 IF BK%=5 THEN BK%=0 :HP%=HP%+CW% :'***NEW CHARACTER.
530 NEXT AD%
590 GOTO 590
```

EDITOR'S COMMENTS:

THE VZ AS SOLD HAS A TANDY PRINTER COMPATIBLE BASIC ROM. FOR THOSE PERSONS WHO HAVE AN EPSON PRINTER COMPATIBLE EPROM THE ABOVE PROGRAM WILL PRINT THE INVERSE CHARACTERS UPSIDE DOWN. TWO MINOR CHANGES ARE REQUIRED TO FIX THE PROBLEM:

OLD LINE: 230 VP%=3 OLD LINE: 470 SET(HP%, VP%+I%)
NEW LINE: 230 VP%=11 NEW LINE: 470 SET(HP%, VP%-I%)

DISK USERS: ENTER THE FOLLOWING LINES FOR EXTRA FUNCTIONS.

TAPE USERS: ENTER ONLY THE FOLLOWING LINES AFTER LINE 610.

```
620 IF A$="S"THEN 800:' ;GOES TO PROGRAM SAVE ROUTINE 630 IF A$="Q"THEN CLS:END:' ;ENDS THIS PROGRAM 640 GOTO 600 ; SAVE"INVERSE ROM":' ;SAVES THIS PROGRAM TO TAPE 820 SOUND 25,1:GOTO 600
```

ON THE NEXT PAGE YOU'LL SEE TWO HI-RES SCREEN PRINTOUTS PRODUCED BY THIS PROGRAM. THE LEFT ONE IS OF A STANDARD VZ ROM WHILE THE RIGHT ONE IS OF A MODIFIED VZ ROM (EPROM). IF YOU STUDY THEM CAREFULLY YOU'LL NOTE THE ERRORS IN THE LEFT ONE THAT BOB MENTIONED. ANOTHER ADVANTAGE OF THE MODIFIED EPROM IS THAT IT WILL PRINTOUT TO AN EPSON COMPATIBLE PRINTER ALL THE VZ'S INVERSE AND GRAPHIC CHARACTERS.

MODIFIED VZ ROM (EPROM):

BESIDES ALLOWING LLISTING AND LPRINTING OF ALL INVERSE AND GRAPHIC CHARACTERS THE EPROM ALSO PROVIDES ALL THE EXTENDED BASIC FUNCTIONS HOBBLED IN THE ORIGINAL VZ ROM WHICH MEANS IT IS NO LONGER REQUIRED TO LOAD ANY EXTENDED BASICS.

WHEN INVERSE CHARACTERS ARE SENT TO A DOT MATRIX PRINTER THE PRINTER SHIFTS TO GRAPHICS MODE AND REQUIRES A ROUTINE TO SUPPLY THE APPROPRIATE SHAPES TO THE HEAD. (NORMAL CHARACTERS ARE HELD IN THE PRINTERS ROM). IN THE VZ COMPUTER A TABLE OF SHAPES IS LOCATED AT 3B94H TO 3CD3H (15252 TO 15571 IN ROM.

THERE ARE 64 CHARACTERS, EACH USING 5 BYTES TO DEFINE THEIR GRAPHIC SHAPE. THE SHAPES MAY BE DECODED AND OUTPUT TO THE SCREEN AS IS DONE IN THIS PROGRAM. NOTE THERE ARE ERRORS IN THE ROM. THE 5 BYTES DEFINE A 5 BY 8 DOT MATRIX WHICH IS THE SHAPE OF THE CHARACTER, WHICH INCIDENTLY ARE NOT ORDERED ACCORDING TO THE ASCII CODE.

THE FIRST BYTE DEFINES THE LEFT HAND EDGE OF THE CHARACTER WHICH IS THE FIRST PRINTED DURING A PASS OF THE PRINTER HEAD. IN TANDY PRINTERS THE MSB IS THE LOWERMOST PIN OF THE HEAD AND LSB IS THE UPPERMOST PIN. THE PINS ON EPSON PRINTER HEADS ARE ARRANGED IN THE OPPOSITE SENSE. THIS REQUIRES THAT THE BITS IN EACH BYTE BE REVERSED.

```
Ø1Ø '*******************************
020 '*** DISPLAY INVERSE CHARACTER SET IN ROM
030 '***
                   AS USED BY DOT MATRIX PRINTER
                     BY R. B. KITCH 27/9/86
050 '********
100 DIM MK%(7): '***VECTOR OF BIT MASK VALUES - POWERS OF 2
110 DIM BT%(7): '***VECTOR OF DECODED BITS FROM ROM VALUE,
130 '***FILL MASK VECTOR WITH POWERS OF 2 FOR DECODING.
140 FOR I\%=0 TO 7 :MK%(I\%)=2^I\% :NEXT I\%
150
160 '***INITIALIZE PARAMETERS - MAY BE CHANGED TO VARY SCREEN.
170 CC%=4 : '***CHARACTER COLOUR. (1-4)
             : '***BACKGROUND COLOUR. (1-4)
180 BC%=2
             :'***COLOUR SET. (0-1)
190 CS%=0
             : '***COLUMN WIDTH BETWEEN CHARACTERS.
200 CW%=3
             : '***ROW SPACING FOR CHARACTERS.
210 SP%=16
220 HS%=0
230 VP%=3
             : '***STARTING HORIZONTAL POSITION ON HI-RES SCREEN.
            : '***STARTING VERTICAL POSITION ON HI-RES SCREEN.
240 HM%=127 : '***MAXIMUM HORIZONTAL POSITION. (0-127)
250:
260 ****SET UP MAIN LOOP TO STEP THROUGH ROM FROM 3B94H-3CD3.
270 BK%=0
                          : '***BYTE COUNTER FOR EACH CHARACTER.
                           :'***SET HORIZONTAL POSITION TO START
:'***SET HI-RES SCREEN AND COLOR SET.
280 HP%=HS%
290 MODE(1) :COLOR.CS%
300 FOR AD%=15252 TO 15571 : '***ROM ADDRESSES FOR SHAPE TABLE.
310
                           :'***DECIMAL VALUE IN ROM.
      DV%=PEEK (AD%)
320 :
   '***DECODE THE INDIVIDUAL BITS OF DV% AND STORE IN BT%().
330
   '***THE MASK VALUES IN MK%() ARE "ANDED" WITH THE VALUE.
340
350 '***THE RESULT STORED IN BT%() IS THE "COLOUR" OF THE BIT.
      FOR I%= 0 TO 7 : '***PROCEED FROM LSB TO MSB.
360
370
        IF DV% AND MK%(I%) THEN BT%(I%)=BC% ELSE BT%(I%)=CC%
      NEXT I%
380
390:
400 '***CHECK THAT THERE IS ENOUGH ROOM TO PLOT CHARACTER.
      IF BK%=0 AND HM%-HP%<4 THEN HP%=HS% : VP%=VP%+SP%: '*NEW ROW
410
420
                           : '***INCREMENT BYTE COUNTER.
430 :
440 '***OUTPUT BYTE TO SCREEN.
450
    FOR 1%=0 TO 7
```

44-11 BASIC & SOURCE CONV. CONT.

QABCDEFGHIJKLMNO QABCDEFGHIJKLMNO PORSTUVWXYZ[%]f+ PORSTUVWXYZEXITE 1"#\$%&/()#+,-,/ 1"#\$%&^()*+#-0128456789*;<=>? 0125456789:34=3?

BASIC & SOURCE CODE TO WP FILE CONVERTER BY DAVE MITCHELL

UTILITY WHICH SOME OF YOU MAY KNOW AS BSTWP.F (BASIC AND SOURCE THIS TO WORD PROCESSOR FILE CONVERTER) IS USED IN CONJUNCTION WITH CODE MITCHELL'S PATCH3.3 (DISK VERSION OF E & F WORD PROCESSOR). IT CAN ALSO BE USED WITH RUSSELL HARRISON'S VERSION OF DISK WORD PROCESSOR (WORDPRO).

AS THE NAME SUGGESTS THIS UTILITY CONVERTS BASIC PROGRAMS AND EDITOR ASSEMBLER ('S' FILE TYPE ONLY) SOURCE CODE FILES INTO WORD PROCESSOR FILES WHICH CAN BE LOADED INTO EITHER DISK WORD PROCESSOR. CONVERTING COULD'NT BE SIMPLER, IT'S JUST A MATTER OF ENTERING THE BASIC OR SOURCE CODE FILENAME AND ONCE LOADED ENTERING THE WP FILENAME. PRESSING RETURN WITHOUT FILENAME WILL PRESENT USER WITH DISK DIRECTORY IN 3 COLUMNS.

CONVERTING IS VERY FAST, DO'NT BLINK OR YOU MAY MISS IT. THE WP FILES ARE SAVED TO DISK WITH A 'W' FILETYPE WITH AN END ADDRESS OF DOODH. BOTH BASIC AND SOURCE CODE FILES ARE PADDED OUT TO 5 DIGITS WITH LEADING ZEROES WHICH YOU MAY HAVE COME ACROSS IN THE JOURNAL ON NUMEROUS OCCASIONS.

AS YOU ENTER THE SOURCE CODE SAVE IT EVERY SO OFTEN SO YOU WON'T LOSE ALL YOUR TYPING. SAVE THE SOURCE CODE AS CONV.SRC AND THE OBJECT CODE AS CONVERT.

WARNING: YOU SHOULD BE AWARE THAT ANY GRAPHIC CHARACTERS IN YOUR CONVERTED BASIC PROGRAM WILL PRINT OUT AS GARBAGE AND IS A LIMITATION OF THE WORD PROCESSOR.

ANYONE WHO HAS TRIED THE PRINTER FUNCTION OF THEIR EDITOR ASSEMBLER WILL FIND THIS UTILITY VERY HANDY FOR PRINTING OUT SOURCE CODE FILES AS IT CAN TAKE ADVANTAGE OF ALL THE PRINTER FUNCTIONS OF PATCH3.3 OR WORDPRO HAS TO OFFER.

CONVERT VERSION 3.1A:

Brian Greeve of WA has modified convert by adding extra functions MAKING IT VERY VERSATILE INDEED. THANKS BRIAN. CONV3.1A WILL CONVERT SOURCE CODE FILETYPES, EG: S, A & W AS WELL AS QUICK WRITE 'F' PROCESSOR FILES. OTHER OPTIONS ARE NUMBER OF DIGITS SELECT, 1-5 AND D000 OR FE00 WP FILE END ADDRESS FOR PATCH3.3 OR WORDPRO.

44-13 BASIC & SOURCE CONV. CONT.

249 250 251 252		PUSH POP INC LD	BC BC HL,0CFFFH	311 312 313 314	LD LD INC PUSH	
253 254 255		EX POP LDDR	DE, HL HL	315 316 317	POP INC LD	DE DE BC,8
256 257 258		INC LD LD	DE (78A4H),DE HL,0D000H	318 319 320 DIR	LDIR RET CALL	Ø1C9H
259 260 261	L18A	LD LD	(HL),0 (78F9H),HL HL,M2	321 322 323	XOR LD LD	A (IY+11H),A (IY+12H),A
262 263	L19	LD LD	(ADD),HL HL,MES2	324 325 L23 326 D1	LD CALL DI	(7AAEH),A DLY
264 265 266		CALL CALL LD	2B75H IPUT (IY+9),"W"	327 328 329	CALL CP	4035H 11H
268 269	L20	CALL IN BIT	DLY A,(13H) 7,A	330 331	JR OR JP	Z,D7 A NZ,400EH
270 271 272		JR LD JP	Z,S4 A,4 400EH	332 333 334	LD LD LD	L,(IY+31H) H,(IY+32H) B,8
273 274 275	S4	CALL OR JP	4044H A NZ,400EH	335 D2 336 337	LD OR JR	A, (HL) A Z,D7
276 277 278		CALL EI JP	400BH HO	338 339 340	PUSH CP JR	BC 1 NZ,D3
279 280 281	BTA L22	LD LD CALL	BC,0606H HL,(BUF1) 132FH	341 342 343	LD ADD JR	DE,16 HL,DE D6
282 283 284		DEC LD INC	HL (HL),20H HL	344 D3 345 346 D4	LD EI LD	B,10 A,(HL)
285	DLY	RET DI	4008H	347 348 349	INC CALL DJNZ	HL 033AH D4
288 289 290		LD CALL RET	BC,0032H 4038H	350 351 352	LD ADD AND	A,(7AAEH) A,10 20H
291 292 293	BR	PUSH POP DEC	IY HL HL	353 354 355	JR LD CALL	NZ,D5A A,20H 033AH
294 295 296		LD LD ADD	(78B1H),HL BC,65485 HL,BC	356 357 D5A 358	JR LD CALL	D5 A,0DH 033AH
297 298 299		LD LD LD	(78A0H),HL HL,7AE9H (78A4H),HL	359 360 361 D5	LD CALL LD	A,1BH 033AH DE,6
300 301 302		LD LD CALL	A,0C9H (79ACH),A 1B4AH	362 363 D6 364	ADD POP DJNZ	HL,DE BC D2
303 304 305	IPUT	JP LD CALL	1A19H HL,MES3 2B75H	365 366 367	INC LD CP	(IY+11H) A, (IY+11H) ØFH
306 307 308		JR LD	053AH C,BR A,(DE)	368 369 D7 370	JR CALL EI	NZ,D1 400BH
309 310		CP JR	20H Z,DIR	371 372 ERR	POP LD	BC,(ADD)

125	LD	DE /s	107	150	7 04
		DE,4	187	JR	Z,B1
126	LD	HL,(78F9H)	188	LD	B,5
127	ADD	HL, DE			
			189 L13	CALL	
128 L5	LD	(BUF1),HL	190	LD	B,5
129 L6		(BUF2),HL	191 L14	CALL	
120 60					
130	LD	HL, (78A4H)	192	LD	B,12H
131 AØ	CALL		193 L15	CALL	CØ
170					
132	LD	A,(HL)	194	JR	B4
133	INC	HL	195 B1	LD	A, (HL)
134				CD	
	LD	(7921H),A	196	CP	ØFFH
135	LD	A,(HL)	197	JR	Z,B4
136	INC	HL	198	CP	
					5BH
137	LD	(7922H),A	199	JR	NC,B3
138	PUSH	RC .	200	ADD	A,20H
139	PUSH		201 B2	LD	(DE),A
140 L7	CALL	RTA .	202	INC	DE
141 L8	LU	(BUF1),HL	203	INC	HL
142	I D	(78A7H),HL	204	JR	B1
143	POP	HL			
			205 B3	RES	6,A
144	CALL	2B7EH	206	JR	B2
145	LD		207 B4		
				LD	A, ØDH
146 A1	LD	A, (HL)	208	LD	(DE),A
147	OR	A	209	INC	DE
148	JR	Z, A3	210	LD	(DE),A
149	CP	40H	211	INC	DE
			211		
150	JR	C,A2	212 L16	LD	(BUF1), DE
151	CP	5BH	213	INC	HL
		NO AD			
152	JR	NC,A2	214	JR	BØ
153	ADD	A,20H	215 C0	LD	A, (HL)
154	LD	(HL),A	216		
				CP	60H
155 A2	INC	HL	217	JR	Z,C2
156	JR	A1	218	CP	0FFH
			210		
157 A3	LD	(HL), 0 DH	219	RET	Z
158	INC	HL	220	CP	5BH
159	LD	(HL),ØDH	221	JR	NC,C1
160	INC	HL	222	ADD	A, 20H
			222		
161 L9	LD	(BUF1),HL	223	JR	C3
162	LD	HL,79E8H	224 C1	RES	6,A
163	LD	(78A7H),HL	225	JR	
					C3
164	POP	HL	226 C2	LD	A,20H
165	JR	AØ	227	DEC	HL
166 BØA	LD	HL, (78F9H)			
			228 C3	LD	(DE),A
167	LD	(HL),0	229	INC	DE
168	INC	HL	230	INC	HL
169	LD	(HL),0	231	DEC	В
170	LD	HL,8000H	232	JR	NZ,C0
171 L10					
	LD	(BUF1),HL	233	INC	HL
172 L11	LD	(BUF2),HL	234	RET	
173	LD	HL,0A280H	235 EXIT		C (III)
			233 EXII		C, (HL)
174 BØ	CALL	EXIT	236	INC	HL
175	INC	HL	237	LD	B, (HL)
176					
	LD	(7921H),BC	238	INC	HL
177	PUSH	HL	239	LD	A,B
178 L12	CALL		240	OR	C
179	EX	DE, HL	241	RET	NZ
180	POP	HL	242 L17	LD	DE, (BUF2)
181					
	LD	A, (HL)	243 L18	LD	HL, (BUF1)
182	CP	7BH	244	LD	(HL), 0DH
183	JR	Z,B1	245		
				PUSH	
184	CP	7AH	246	OR	Α
185	JR	Z,B1	247	SBC	HL, DE
186					
100	CP	6AH	248	JR	Z,EI

44-15 VZ FREQUENCY CONTINUED

```
10 GOTO1000
12 ERA"----": RETURN
14 REN"----"
                 "----": RETURN
16 OPEN"-----",0
18 IN#"----", YR, WK, R, L$, P$: RETURN
20 FORI=1TOR
22 IN#"-----",C(I):NEXT
24 CLOSE"----":RETURN
25 SAVE"----":RETURN
34 :
38 :
40 FOR O=0 TO 7:POKE AD+0,ASC(MID$(N$+"
                                            ",0+1,1))
42 NEXT:RETURN
44
46 FOR O=0 TO 2:POKE AD+O,ASC(MID$(X$,O+1,1)):NEXT:RETURN
48 :
50 CLS:POKE 30777,1:PRINT"::
52 IF M>0 THEN RETURN: '32 INVERSE SPACES: ^^
54 PRINT@9, FR$: RETURN
58
60 PRINT@275, "N":PRINT@258, "ARE YOU SURE "::RETURN
62
64 PRINTa487, M$;: RETURN
66
68 PRINT@226, "SELECTED DRIVE >";D:RETURN
78
80 ND=0:FOR I=1 TO R:IF C(I)>0 THEN ND=1:I=R:'"關於阿臘可能的問題可能與自己的問題
82 NEXT: IF ND=1 THEN RETURN
84 PRINT0393, "國際國際企業 SOUND 5,6:ND=0:RETURN
88 :
90 IF R=44 THEN PL$="LOTTO" ELSE PL$="POOLS"
91 PRINT@481,PL$;:PRINT" YR
92 PRINT@490, USING "##"; YR;
93 PRINT@496, USING "##"; WK;
94 PRINT@499,USING"% %";L$;
95 PRINTa503,P$;:RETURN
98 :
100 AD=31535:GOSUB 40: 'POKE LINE 16 FILENAME
106 AD=31555:GOSUB 40: POKE LINE 18 FILENAME
108 AD=31600:GOSUB 40: 'POKE LINE 22 FILENAME
110 AD=31627:GOSUB 40: 'POKE LINE 24 FILENAME
112 AD=31551:GOSUB 46: POKE LINE
                               18 IN#/PR#
114 AD=31596:GOSUB 46: 'POKE LINE 22 IN#/PR#
116 POKE 31545,X
                    : 'POKE LINE 16 0 OR 1
118:
120 IF U=2 THEN AD=31483:GOSUB 40:GOSUB 12: POKE LINE 12 F'NAME
122 GOSUB 16:GOSUB 90:GOSUB 20
124 IF U=0 THEN 500 ELSE 400
148
152 PRINT@247,YR:PRINT@226,"ENTER YEAR (94-99) ";
154 INPUT YR:IF YR=0 THEN 300
156 IF YR<94 OR YR>99 THEN 152
158
160 PRINT@279,WK:PRINT@258,"ENTER WEEK (00-52) ";:INPUT WK
162 IF WK=0 THEN 300
164 IF WK>52 THEN 160
168:
170 PRINT@312,L$:PRINT@290,"ENTER (MON MID SAT) ";:INPUT L$
172 IF L$="" THEN 300
174 L$=LEFT$(L$,3):GOTO 300
```

373 PUSH BC	386 * WRITTEN BY D.MITCHELL*
374 RET	387 DEFB ØDH
375 ADD DEFW 0	388 NOP
376 BUF1 DEFW 0	389 MES1 DEFB ODH
377 BUF2 DEFW 0	390 * ENTER B/S *
378 MESØ DEFB 1FH	391 NOP
379 * THIS PROGRAM WILL MAKE WO	392 MES2 DEFB ØDH
380 *RD*	393 * ENTER WP. *
381 DEFB ØDH	394 NOP
382 * PROCESSOR FILES FROM*	395 MES3 EQU \$
383 * BASIC AND EDITOR ASSEMBL*	396 *FILENAME :*
384 *ER SOURCE CODES*	397 NOP
385 DEFB ØDH	398 END NOP

VZ NUMBERS FREQUENCY

THIS PROGRAM IS DESIGNED TO KEEP TRACK OF WINNING NUMBERS IN POOLS AND GO LOTTO. THERE IS A CHOICE OF PRIME NUMBERS ONLY OR CAN INCLUDE SUPPLEMENTARY NUMBERS AS WELL. WITH SOME MINOR MODIFICATIONS THIS PROGRAM COULD BE ALTERED TO KEEP TRACK OF OTHER NUMBER FREQUENCIES.

THE LEFT PRINTOUT BELOW SHOWS GO LOTTO FREQUENCY NUMBERS FOR THE YEAR OF 1994 UP TO THURSDAY, WEEK 7 WHILE THE ONE ON THE RIGHT IS FOR THE SAME TIME PERIOD, BUT INCLUDES SUPPLEMENTARY NUMBERS AS WELL.

THERE ARE TWO INPUT CHOICES:

- INSERT THIS ALLOWS YOU TO INSERT NUMBERS AS THEY ARE DRAWN AND/OR ADD TO EXISTING NUMBERS.
- 2) EDIT IF YOU HAVE BEEN KEEPING TABS OF NUMBERS USING PENCIL AND PAPER THEN THIS OPTION WILL ALLOW YOU TO ENTER NUMBERS IN THE RANGE FROM 0 TO 9999 MAXIMUM.

ALSO TO THE BEST OF MY KNOWLEDGE THIS IS THE FIRST TIME THAT A 4 BYTE MULTI USR CALL ROUTINE HAS BEEN USED IN A PUBLISHED PROGRAM WHICH WAS DESCRIBED IN ISSUE # 31, PAGE 14. IT SIMPLIFIES THE CALLING OF M/C ROUTINES WHICH ARE:

- 1) VZ SOUND BEEPER.
- 2) M/C CLS (CLEAR PART SCREEN 14 LINES.)
- 3) M/C DIRECTORY ROUTINE WHICH WILL BE PUBLISHED IN NEXT ISSUE.

	PREQUENC	Y	
1- 2 12-	<u> 23</u> -	9 34-	1
1 \$ - 2 1 \$ -	1 25-	ģ 36-	4
15- 15-	8 2 5 =	0 37- 3 38-	\$2 3 4
15= 113=	Į <u>3</u> 8=	3 34- 3 44-	3
	ģ \$6-	2 40- 2 41- 3 42-	2
19- 121-	i 32-	7 45-	32
111- 3 22-		1 44-	~
LOTTO YR 94	(:) FOR WK 7 MI	MENU D PRIME	
Commence of the state of the st			

1-	3 12-	2 29-	0 24-	1
\$-	\$ 14-	1 25-	4 35-	50
1 ==	1 15-	0 26- 4 27- 3 28-	335- 337- 338- 4384-	
17-	1 18-	Ž ŽŠ=	1 44-	4400400
1.3-	4 23-	1 31 - 5 31 -	2 41- 3 42- 2 43- 1 44-	4
110-	\$ 22-	5 31- 2 32- 0 33-	1 44-	3
	PRESS O YR 94	(:) EOR	MENU ID PRIME+	
LOTT	U YR 94	<u>- WK 7 M</u>	ID FRIME+	

44-17 VZ FREQUENCY CONTINUED

```
356 IF C$="E"THEN 900
358 IF C$="D"THEN 500
360 :
362 IF C$="P"THEN 550
364 IF C$="C"THEN RUN
366 IF C$="Y"THEN 150
368
370 IF C$="Q"THEN 680
372 IF C$=";"THEN 960
374 IF C$=":"THEN 400
378 :
396 GOTO 350
398 :
402:
404 PRINT@073, "L) LOAD
                          DATA"
406 PRINT@105, "S) SAVE DATA"
408 PRINT@137, "U) UPDATE DATA"
                          DATA"
410 :
412 PRINT@201, "E) ERASE FILE"
414 PRINT@233, "R) RENAME FILE"
416 PRINT@265, "I) INIT DISK"
418:
420 PRINT@329, "D) DIRECTORY"
422 PRINT@361, "1) DRIVE 1/2"
424 PRINT@393,":) MAIN MENU
428:
430 DRIVE D:PRINT@361.USING"#";DR
442 :
444 GOSUB 90: SOUND 25.1
446 POKE 30777,35
448
450 D$=INKEY$:D$=INKEY$:IF D$=""THEN 450 ELSE X=USR(13392)
452 :
454 IF D$="L"THEN U=0:GOTO 650
456 IF D$="S"THEN U=1:GOTO 650
458 IF D$="U"THEN U=2:GOTO 650
459 :
460 IF D$="E"THEN 600
462 IF D$="R"THEN 620
463
464 IF D$="D"THEN 850
466 IF D$="I"THEN 780
470 IF D$="1"THEN D=1:DR$="雠":GOTO 430
472 IF D$="2"THEN D=2:DR$="\":GOTO 430
474 :
476 IF D$=":"THEN 300
494:
496 GOTO 450
498
502 M=0:GOSUB 50:GOSUB 90
508
510 Es="##":Fs="#### ":PRINTa64."":
518 :
520 IF R=38 THEN X1=10:Y1=30:ST=10
522 IF R=44 THEN X1=11:Y1=33:ST=11
524 FOR X=1 TO X1:FOR Y=0 TO Y1 STEP ST
526 IF R=38 THEN IF X+Y>38 THEN PRINT:GOTO 534
528
530 PRINT USING E$; X+Y; :PRINT"-";
532 PRINT USING F$;C(X+Y);
```

```
198:
202 :
204 IF R=44 THEN PRINT@243, "L" ELSE PRINT@243. "P"
206 PRINT@226, "LOTTO OR POOLS ";: INPUT Y$
208:
210 IF YS="L"THEN R=44:P=8:PRINT@481,"L團頭廳廳門;:GOTO 216
212 IF Y$="P"THEN R=38:P=7:PRINT@481,"|國國國國";:ELSE 204
214 :
216 PRINT@275, "N":PRINT@258, "PRIME #'S ONLY "::INPUT P$
218:
220 IF P$="Y"THEN P$="PRIME ":P=6:GOTO 230
222 IF P$="N"THEN P$="PRIME+":GOTO 230 ELSE 216
224
230 X=USR(31348): 'CLEAR PART SCREEN
232 L=98:FOR A=1 TO P
234:
236 IF A<7 THEN PRINTOL, "ENTER WINNING #";A;"-> ";
238 IF A=7 THEN L=322
240 IF A>6 THEN PRINTAL, "SUPPLEMENTARY NUMBER ";
242 ;
244 INPUT N(A)
246 IF N(A)=0 THEN A=P:GOTO 300
248 IF A<7 THEN IF N(A)>R THEN 236
250 IF A>6 THEN IF N(A)>R THEN 240
252 T=0:IF A \leftrightarrow 1 THEN FOR I=1 TO A-1:T=T-(N(I)=N(A)):NEXT I
254 IF (T) THEN 236
256 L=L+32:NEXT
258 :
260 PRINT@441, "Y":PRINT@418, "ARE NUMBERS CORRECT ";
262
264 INPUT Y$:IF Y$="Y"THEN 270
266 IF Y$="N"THEN 232 ELSE 260
268 :
270 FOR I=1 TO P: " IN TOTAL TO BE THE TOTAL 
272 C(N(I))=C(N(I))+1:NEXT
274:
276 PRINT@441, "Y":PRINT@418, "ENTER MORE NUMBERS ";:INPUT Y$
278 :
280 IF Y$="Y"THEN 230
282 IF Y$="N"THEN 500 ELSE 276
298 :
300 M=0:GOSUB 50: "繼和職組織組織組織
302 :
304 PRINT@073,"I) INSERT 306 PRINT@105,"E) EDIT
                                                                 DATA"
                                                                 DATA"
308 PRINT@137, "D) DISPLAY DATA"
310
312 PRINT@201, "P) PRINT
314 PRINT@233, "C) CLEAR
316 PRINT@265, "Y) ENTER
                                                                 DATA"
                                                                 DATA"
                                                              YR/WK"
318
320 PRINT@329,"Q) QUIT & PARK"
324 PRINT@361,";) SUB MENU"
326 PRINT@393,":) DISK MENU
342
344 GOSUB 90:SOUND 25.1
346 POKE 30777,35
348 :
350 C$=INKEY$:C$=INKEY$:IF C$=""THEN 350 ELSE X=USR(13392)
352 :
354 IF C$="I"THEN 200
```

44-19 VZ-EPSON PRINTER PATCH V1.4 BY LARRY TAYLOR - PUBLIC DOMAIN

These same characters can also be dumped to the printer from the LO-RES screen, when the COPY command is used. In MODE(1), use of the COPY command will dump the HI-RES screen to the printer. In addition, an extension of the COPY command has been provided. The new command is COPYA. If COPYA is used in MODE(0), a dump of the LO-RES screen will be made without the usual linefeeds, whilst in MODE(1), a larger than normal dump of the HI-RES screen will be printed. To cater to differences in line feeds between printers, both commands may be used in the form COPYA and COPYAN, where n is a value ranging from 4 to 8. Changing n allows selection of a line feed setting apppropriate to the printer being used. Should COPY or COPYA not be followed by a line feed value, then a default setting of 6 will be used.

Three additional commands, LTAB(n), PAGE(n) and FEED(n) have also been added. The LTAB(n) command is used to set a left margin for any output to the printer, whether from an LPRINT statement, during LLISTing of a BASIC program or when doing a screen dump. The value n may be in the range 0 to 63, indicating the number of spaces in from the left that printing will occur. A printout of the disk directory at the current LTAB(n) position can be obtained by first setting the output device code to printer, followed by the DIR command. eg. POKE30876,1:DIR

PAGE(n) sets the page length and n may be in the range O to 127. FEED(n) sets the number of linefeeds between the end of printed text and the end of the page. It can be in the range from O to 127, but unless it is less than the page length, it will be ignored. Setting a valid linefeed value, causes a form feed to occur automatically. If n is set to O then the automatic form feed is switched off. LTAB(n), PAGE(n), FEED(n), LLIST, LPRINT and both the COPY commands may be entered either directly from the keyboard, or used from within a program, but will only function correctly whilst the PRINTER PATCH is present.

The utility locates and protects itself according to available memory, allowing BASIC programs to be loaded and worked on normally. When LLISTing a BASIC program, the routine is also able to recognize all of the hidden commands, which may have been entered using an EXTENDED BASIC. Although not dependent on it, the routine can be used with Steve Olney's EXTENDED BASIC already resident in memory and will not interfere with it in any way. To use it in this way, first load the extended BASIC and then the PRINTER PATCH. Once the READY message appears you will have access to both the EXTENDED BASIC and the improved printer commands.

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```
534 NEXT Y:NEXT X
  536 E$="":F$=""
  542:
  544 PRINT@455,M$
  546 IF INKEY$=":"THEN 300 ELSE 546
  548:
  552 M=1:GOSUB 50:PRINTall,"過速機關電腦的":GOSUB 90
  554:
  556 GOSUB 60: INPUT Y$
  558 IF Y$="N"THEN 300
  560 IF Y$="Y"THEN 564 ELSE 556
  562
  564 E$="##":F$="**## "
 566 LPRINT TAB(10) "VZ ";PL$; " YR ";USING E$:Y:
  568 LPRINT" WK ";USING E$;W;:LPRINT" ";USING"% %";L$;
  570 LPRINT USING"%
                                                      %":P$:LPRINT
 572:
 574 IF R=38 THEN X1=10:Y1=30:ST=10
  576 IF R=44 THEN X1=11:Y1=33:ST=11
 578 FOR X=1 TO X1:FOR Y=0 TO Y1 STEP ST
  580 IF R=38 THEN IF X+Y>38 THEN 590
 584
 586 LPRINTTAB(10)USING E$;X+Y;:LPRINT"-";
 588 LPRINT USING F$;C(X+Y);
 590 NEXT Y:LPRINT
 594 NEXT X:LPRINT
 596 E$="":F$="":GOTO 300
 598
 600 M=1:GOSUB 50:PRINT@10,"回题回回题::GOSUB 68:PRINT@258,EF$;
 602:
 604 SOUND 30,1:INPUT N$
 606 IF N$=""THEN 400
 608 IF LEN(N$)>8 THEN 600
 610 AD=31483:GOSUB 40:GOSUB 12
 612 GOTO 400
 618 :
 622 :
624 PRINT@258, "OLD FILENAME > ";:SOUND 30,1:INPUT N$
626 IF N$=""THEN 400
628 IF LEN(N$)>8 THEN 620
630 AD=31503:GOSUB 40
632 :
634 PRINT@290, "NEW FILENAME > ";:SOUND 30,1:INPUT N$
636 IF N$=""THEN 400
638 IF LEN(N$)>8 THEN 634
640 AD=31514:GOSUB 40
642 GOSUB 14:GOTO 400
648:
650 IF U>O THEN GOSUB 80:IF ND=O THEN 424: " THE THE PROPERTY OF THE N 424: " THE N
652 M=1:GOSUB 50
660 PRINT"臘町淵町":GOSUB 90:GOSUB 68
662
664 PRINT@275,N$:PRINT@258,EF$;
666 INPUT NS:IF NS=""THEN 400
668 IF LEN(N$)>8 THEN664
```

DAVE MITCHELL

E & F WP PATCH 3.3 MENU & FILE COPIER EXTENDED DOS V1.3 MONITOR 60000H DISK FILER & CATALOGUER

E & F WP PATCH 3.4 MENU & FILE COPIER 6000H EXTENDED DOS 6000H DISK FILE COPIER 6000H

MARK HARWOOD

MARK 32 DATABASE DISK EDITOR ASSEMBLER MARK 64 DATABASE VZ USER NEWSLETTERS - 22 ISSUES

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VZ EPSON PRINTER PATCH 1.4 COPYPRO 4: FILE COPIER/PROTECTOR COPYPRO 5: TWO DRIVE DISK ONLY DISK COPY 2: SINGLE DRIVE COPIER

ESCAPE RIVER FACTORY TOWER OF HANOI (EDUCATIONAL GAME) NAME THE TOWNS (EDUCATIONAL)

(LO/HI-RES ADVENTURE) (EDUCATIONAL GAME)

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(EDUCATIONAL) (EDUCATIONAL MATHS)

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